



Fig. 1

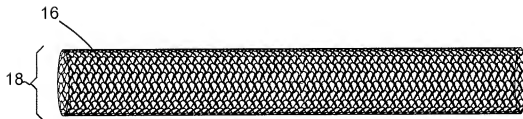


Fig. 2

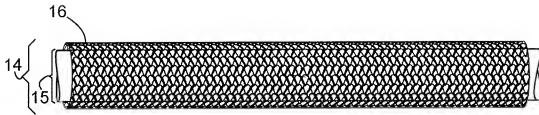


Fig. 2A

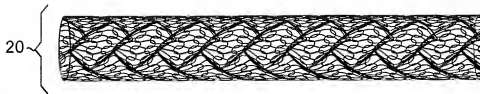


Fig. 3

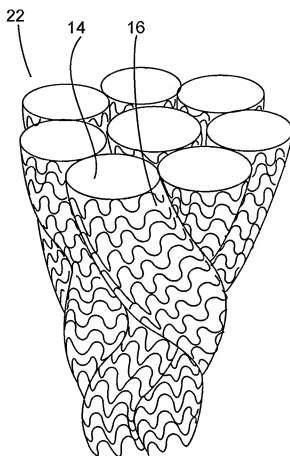


Fig. 4

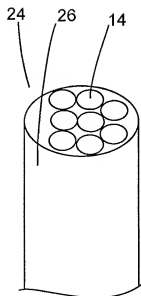


Fig. 5A

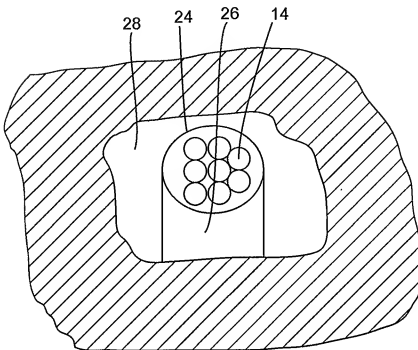


Fig. 5B

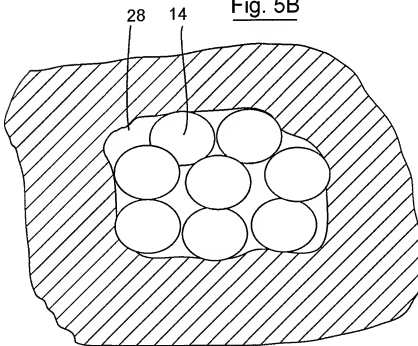


Fig. 5C

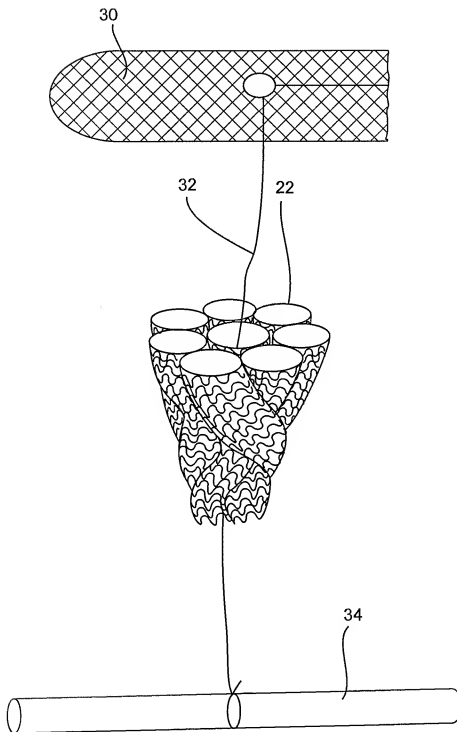


Fig. 6A

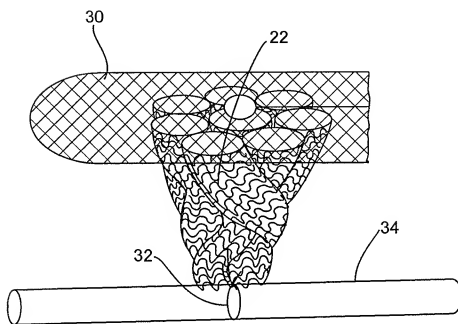


Fig. 6B

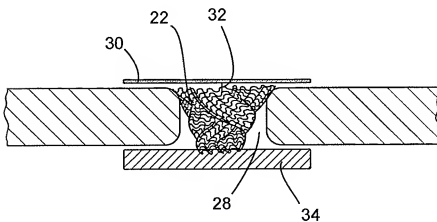


Fig. 6C

Method for producing soft tissue implant

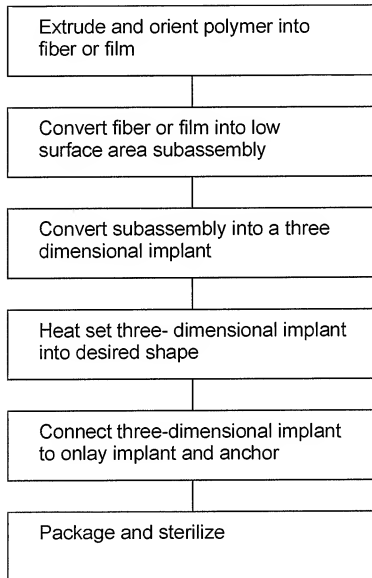


Fig. 7

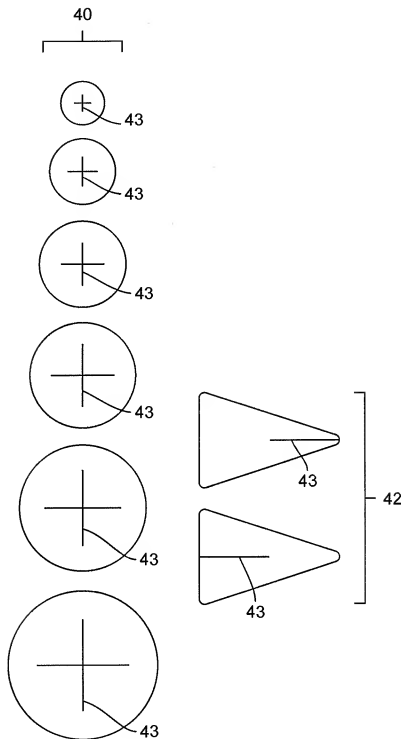


Fig. 8A

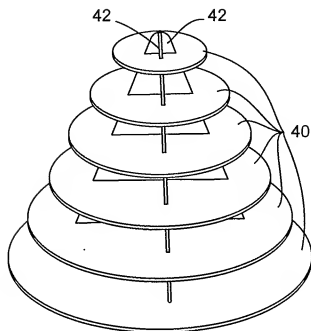


Fig. 8B

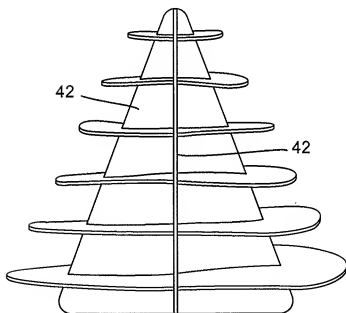


Fig. 8C

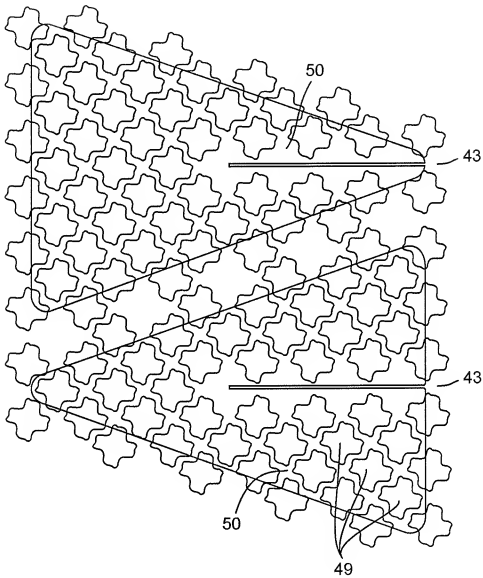


Fig. 9A

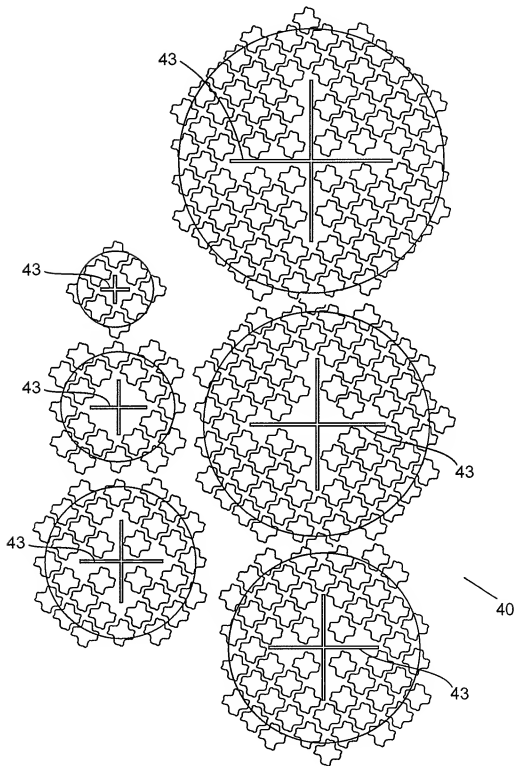


Fig. 9B

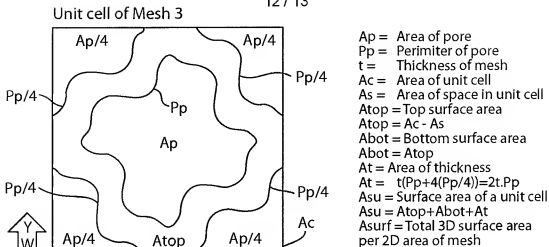


Fig. 9C

Method for Calculating Mesh3 Surface Area

Area of pore	A_p	10.89	mm ²
Perimeter of pore	P_p	15.08	mm
Thickness	t	0.20	mm
Area of unit cell	A_c	35.48	mm ²
Area of space in unit cell	$A_s = A_p + 4(A_p/4) = 2A_p$	21.78	mm ²
Top surface area	$A_{top} = A_c - A_s$	13.70	mm ²
Bottom surface area	$A_{bot} = A_{top}$	13.70	mm ²
Area of Thickness	$A_t = t(P_p + 4(P_p/4))$	6.03	mm ²
3D surface area of a unit cell	$A_{su} = A_{top} + A_{bot} + A_t$	33.43	mm ²
Surface area ratio	$A_{surf} = A_{su} / A_c$	0.94	

Method for Calculating the Surface Area for the Three Dimensional Implant Components

Area of disks	$A_d = \pi(r_1)^2 + \pi(r_2)^2 + \dots$	44.02	cm ²
Surface area of disks	$A_{surfd} = A_d \cdot A_{surf}$	41.38	cm ²
Area of supports	$A_s = ((L_{sup} \cdot R_{sup}) \cdot 1/2) \cdot 2$	13.31	cm ²
Surface area of supports	$A_{surfs} = A_s \cdot A_{surf}$	12.51	cm ²
Surface area of implant	$A_{surfi} = A_{surfd} + A_{surfs}$	53.89	cm ²

Fig. 9D

